



WinCal

Calcium Boron Liquid Fertilizer

Solution for calcium and boron deficiency plants



WinCal

Most fertilizers are lacking in calcium, as they mainly supply NPK and some secondary micronutrients (e.g. Mg and S).

Plants, particularly fruit trees require consistent supply of Ca during flowering and/or fruiting stages.

Normally soil is able to provide ample Ca but will be insufficient when demand increases.



1

Concentrated calcium and boron solution that allows efficient uptake and utilization by plants

2

Helps to address deficiencies of calcium and boron in plants

3

Promotes healthier growth, improves fruit quality and increases crops yields in plants



WinCal



**Calcium fortified
with nutrient**

Rich calcium supplemented with
potassium and boron



**Two ways of
application**

Soil drench or foliar spray
to deliver the nutrients



**Unique growth
booster**

Improve microbiome
diversity and density



WinCal : Nutrient Content

20% Calcium (CaO)

- Strengthens plant cell wall
- Provides rigidity and structure to plant cells

6% Potassium (K₂O)

- Stimulates flower and fruit initiation



2% Boron (B₂O₃)

- Helps in plant cell wall integrity and flexibility
- Involves in pollen germination

10% Organic Matter (OM)

- Supply nutrients to plant



WinCal can prevent :



Fruit Rot Disease



**Stem / Root
Rot Disease**



**Brittle Stem
(easily break)**

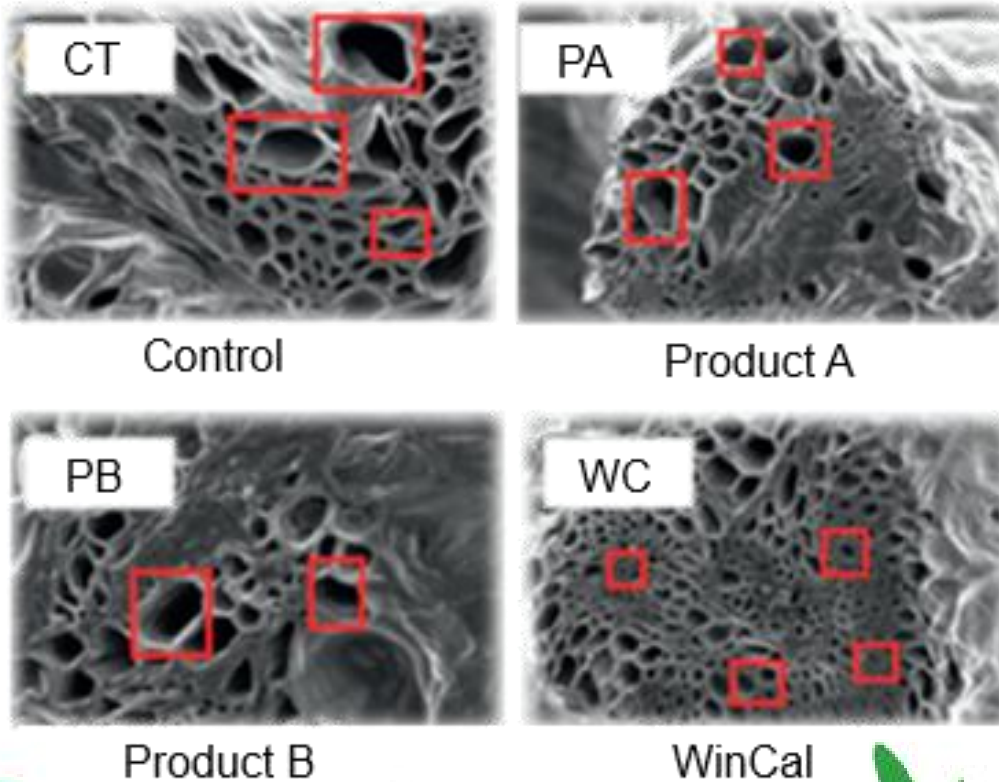


Fruit Craking



Trial Study of WinCal

Plant Cell Wall Rigidity



- SEM analysis has shown that WinCal can generate plant cell wall with better turgor, rigidity and uniformity.
- More regular plant cell wall (same pore size) is formed by WinCal.
- WinCal can improve the tensile strength and stiffness of plant cell wall.



Trial Study of WinCal

Anti-Fungal Properties

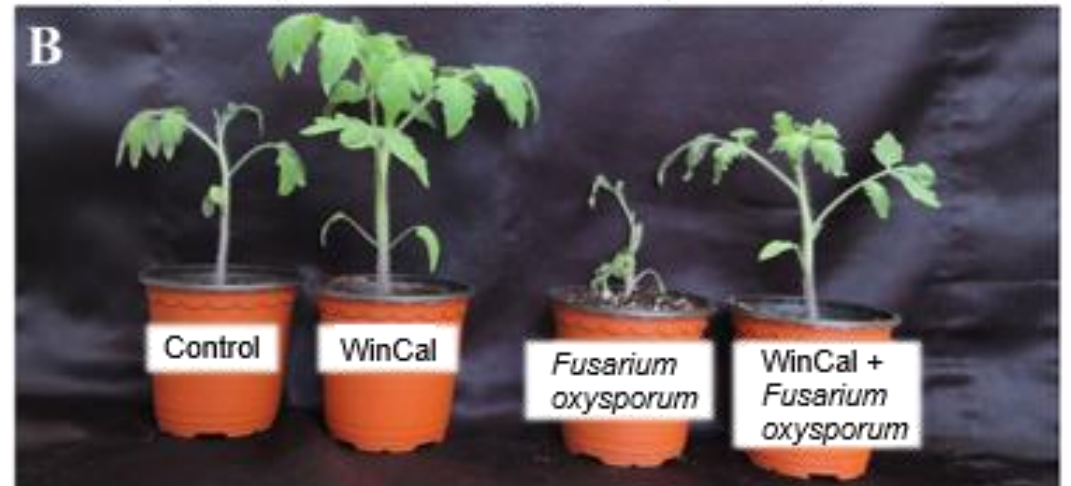
- Application of WinCal prior to *Fusarium* infection is effective in hindering fungal growth.
- WinCal contains calcium and growth booster, which work synergistically to inhibit the development of fungal diseases.

Calcium:

- build up for stronger cell wall

Growth booster:

- metabolites with anti-pathogenic properties.



WinCal : Direction of Use

Inclusion rate:

- 1000x dilution
(20 ml of CalMax to 20 L of water)
- Foliar spray for fruits or flowers
- Soil drench for roots or stems

Frequency:

One application every 2 weeks is recommended to obtain good yield and quality in fruits and vegetables.



Time:

- Early morning (before 9am)
- Late evening (after 5pm)

Application:

- Flowering stage of crops
- Early stage of fruit set





Thank you for listening



HIDDEN GREEN BIOTECH SDN BHD

